BiPAC 7402(G)X(L) Series

3G/ ADSL2+ (802.11g) (VPN)

Firewall Router

Quick Start Guide

Declaration of Conformity
Konformitätserklärung

in accordance with the Radio and Telecommunications Terminal Equipment Act (FTEG) and Directive 1999/5/EC (R&TTE Directive)
gemäß dem Gesetz über Funkanlagen und Telekommunikationsendeinrichtungen (FTEG) und der Richtlinie 1999/5/EG (R&TTE)

The Manufacturer: ***Billion Electric Co., Ltd.***
Hersteller:

8F, No. 192, Sec. 2, Chung Hsing Rd.,
Hsin Tien City, Taipei Hsien

Declares that the product: ***BiPAC 7402GX/ 7402GXL/ 7402X/ 7402XL/ 7402G R3/ 7402GL R3/ 7402 R3/ 7402L R3***
BEC7600GT/7600T
erklärt, dass das Produkt:

Radio equipment
Funkanlage

Intended purpose: ***3G/ADSL2+ (802.11g) (VPN) Firewall Router***
Verwendungszweck:

complies with the essential requirements of §3 and the other relevant provisions of the FTEG (Article 3 of the R&TTE Directive), when used for its intended purpose.
bei bestimmungsgemäßer Verwendung den grundlegenden Anforderungen des § 3 und den übrigen einschlägigen Bestimmungen des FTEG (Artikel 3 der R&TTE) entspricht.

Harmonised standards: Health and Safety requirements contained in §3 (1) 1. (Article 3 (1) a))
Harmonisierte Normen: Gesundheit und Sicherheit gemäß §3 (1) 1. (Artikel 3 (1) a))

EN 60950-1: 2006

Harmonised standards: Protection requirements with respect to EMC §3 (1) 2, (Article 3 (1) b))
Harmonisierte Normen: Schutzanforderungen in Bezug auf die EMV §3 (1) 2, Artikel 3 (1) b))

EN 55022:1998 + A1:2000 + A2:2003, EN 61000-3-2:2000, EN 61000-3-3:1995 + A1:2001,
EN 55024:1998 + A1:2001 + A2:2003, IEC 61000-4-2:1995 + A1:1998 + A2:2000,
IEC 61000-4-3:2002 + A1:2002, IEC 61000-4-4:1995 + A1:2000 + A2:2001,
IEC 61000-4-5:1995 + A1:2000, IEC 61000-4-6:1996 + A1:2000, IEC 61000-4-11:1994 + A1:2000

Harmonised standards: Measures for the efficient use of the radio frequency spectrum
Harmonisierte Normen: Masnahmen zur effizienten Nutzung des Funkfrequenzspektrums

EN 301 489-1 V1.4.1:2002, EN 301 489-17 V1.2.1:2002, EN 300 328 V1.6.1:2004

Interface specification: Air interface of the radio systems pursuant to § 3(2) (Article 3(2))
Schnittstellenspezifikation: Luftschnittstelle bei Funkanlagen gemas § 3(2) (Artikel 3(2))

2.412 – 2.472 GHz

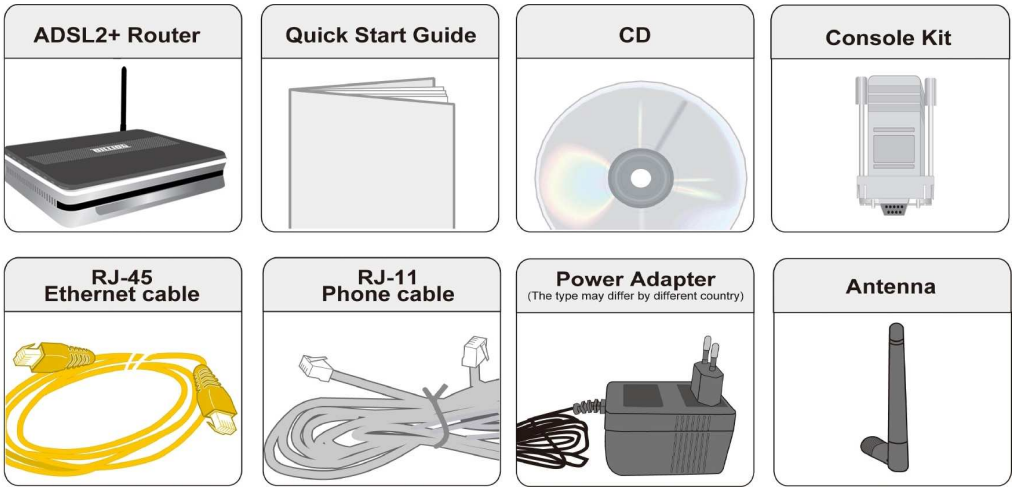
This declaration is issued by:
Diese Erklärung wird verantwortlich abgegeben durch:

LONDON	28/ Jan 2008	
(Place)	(Date)	*Edward Kung* *Managing Director* *Etec Components Ltd.*

PLEASE READ THE QUICK START GUIDE AND FOLLOW THE STEPS CAREFULLY. THIS QUICK START GUIDE WILL HELP YOU INSTALL THE DEVICE PROPERLY AND AVOID IMPROPER USAGE. IF YOU NEED MORE INFORMATION ON THIS SOFTWARE CONFIGURATION, PLEASE REFER TO THE USER MANUAL ON CD-ROM.

Package Contents

- BiPAC 7402(G)X(L) Series ADSL2+ Router
- CD containing the on-line manual
- RJ-11 ADSL/telephone cable
- Ethernet (CAT-5 LAN) cable
- One 2dbi detachable antenna (Wireless model only)
- Power adapter
- RJ-45 to RS-232 Console Kit
- Quick Start Guide
- Splitter/ Micro-filter (Optional)



Warning

- Do not use the router in high humidity or high temperatures.
- Do not use the same power source for the router as other equipment.
- Do not open or repair the case yourself. If the router is too hot, turn off the power immediately and have it repaired at a qualified service center.
- Avoid using this product and all accessories outdoors.

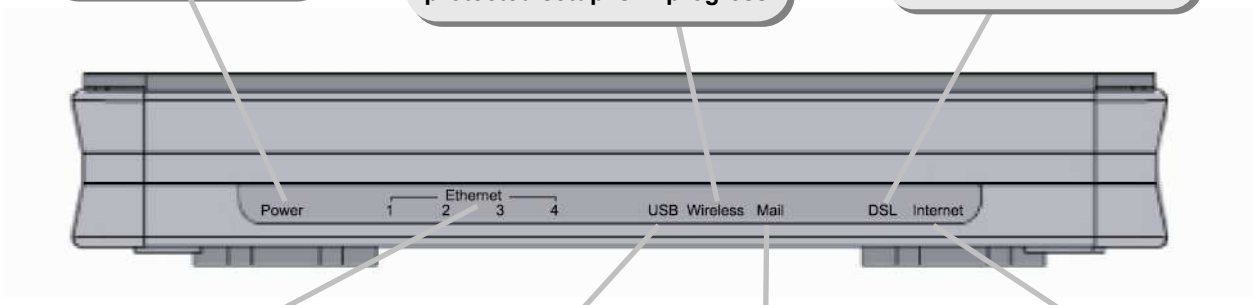
Attention

- Place the router on a stable surface.
- Only use the power adapter that comes with the package. Using a different voltage rating power adaptor may damage the router.

Hardware Overview

BiPAC 7402X(L) does not support 802.11g and WPS functions.

The Front LEDs



Lit orange red when power is ON. Lit red means system is fail. Lit green when the system is ready.

Lit green when the wireless connection is established. Flashes when the device sending /receiving data. Flash once per second while wi-fi protected setup is in progress

Lit green when successfully connected to an ADSL DSLAM ("Line sync")

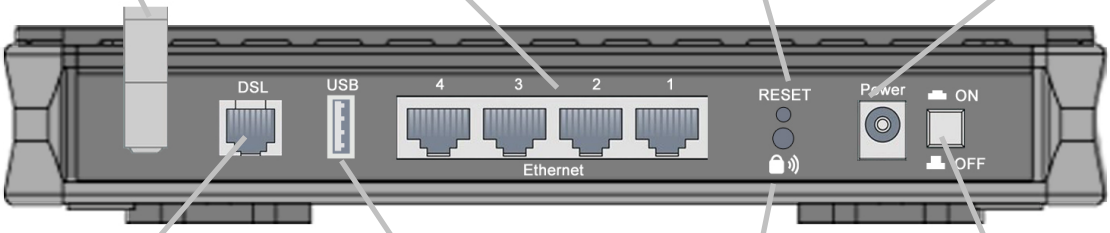
Lit when connected to an Ethernet device. Green for 100Mbps; Orange for 10Mbps. Blinking when data is Transmitted / Received.

Lit when the USB device is ready. Flashes when sending / receiving data.

Lit green when there are emails in the inbox.

Lit green when IP connected. Flashes green when IP connected and IP traffic is passing thru the device. Lit red when device attempted to become IP connected and failed. Lit off in bridged mode or when connection WAN is absent.

The Rear Ports



Connect the antenna.

Connect your computer to a LAN port, using a UTP Ethernet cable.

Press it to reset the device or restore to factory default settings.

Connect the supplied power adapter to this jack.

Connect the supplied RJ-11 ("telephone") cable on this port when connecting to the ADSL/ telephone network.

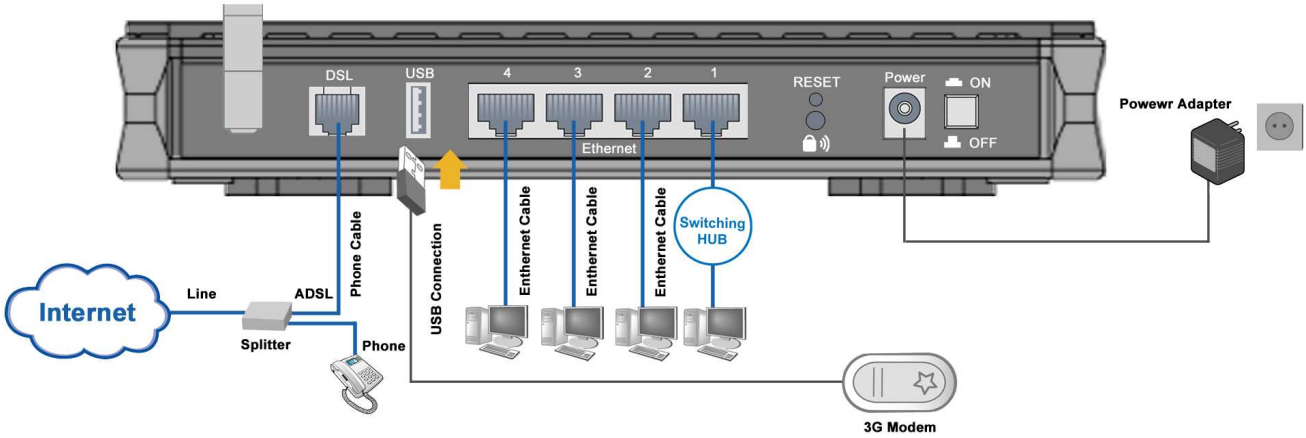
Connect the USB cable on this port.

Push WPS button to trigger Wi-Fi Protected Setup function*.

Power ON/ OFF switch

*** Note: For WPS configuration, please refer to the WPS section of User Manual.**

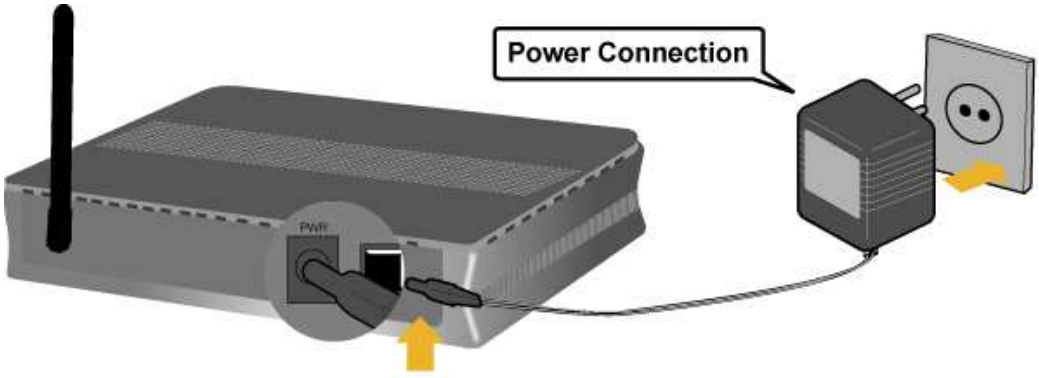
Hardware Connection



Hardware Installation

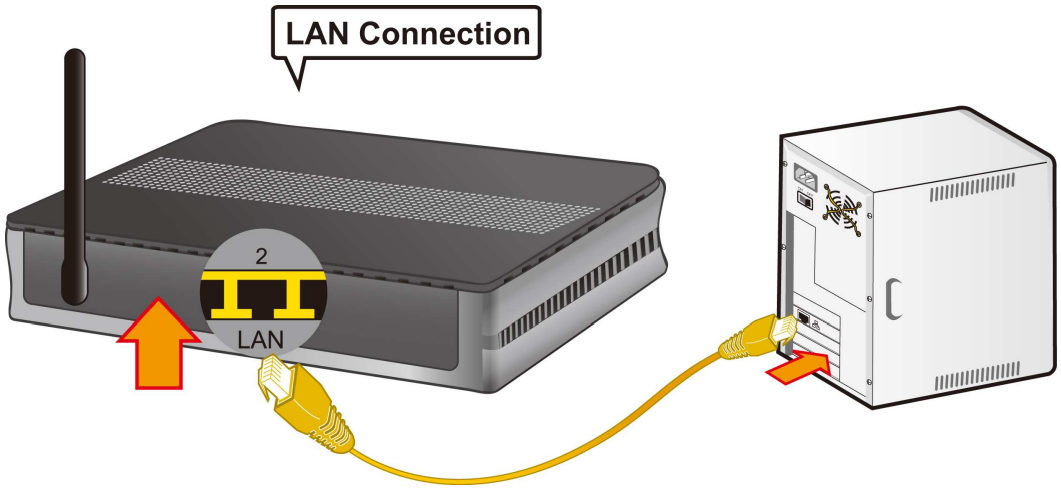
1. **Power Connection**

   Plug the supplied power adapter to the wall jack and the other side to the router. Please note that the plug type may differ according to different country.



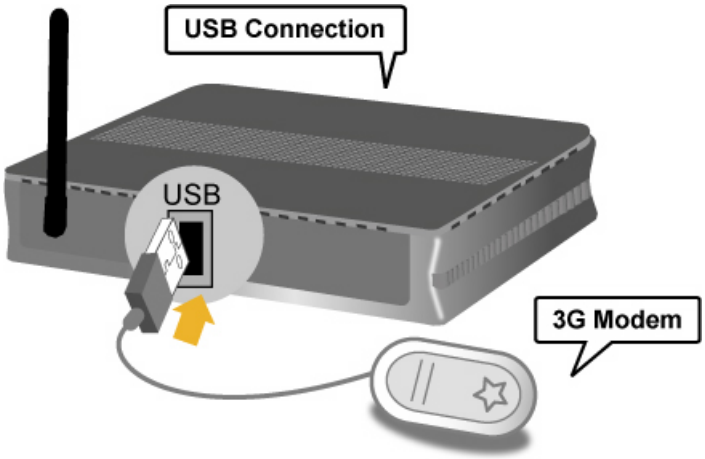
2. **LAN Connection**

   Connect the supplied RJ-45 Ethernet cable to one of the Ethernet ports, and the other side to the PC's Ethernet interface.



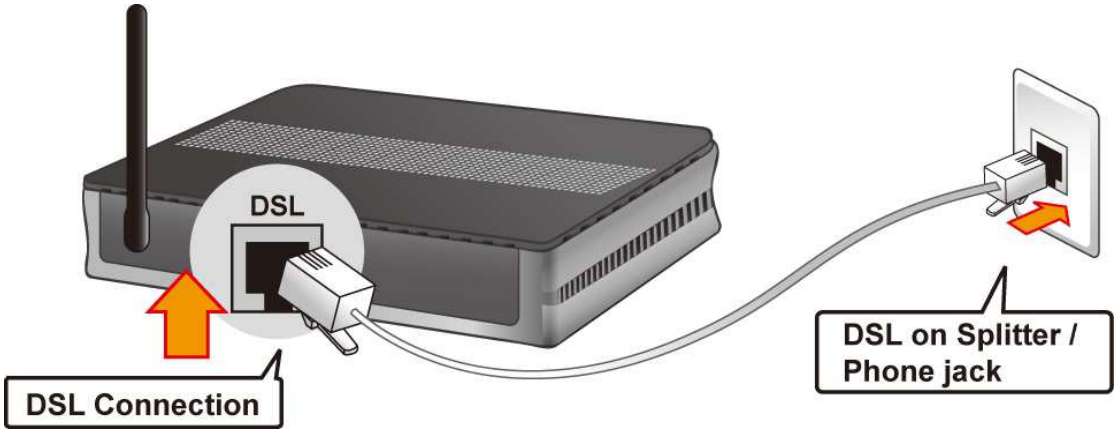
3. USB Connection

The USB 2.0 port supports 3G/ HSDPA modem connectivity: users can conveniently access Internet via 3G, eliminating the limitations of the wired network. This solution also employs an auto fail-over feature to ensure always-on connectivity for SOHO users.



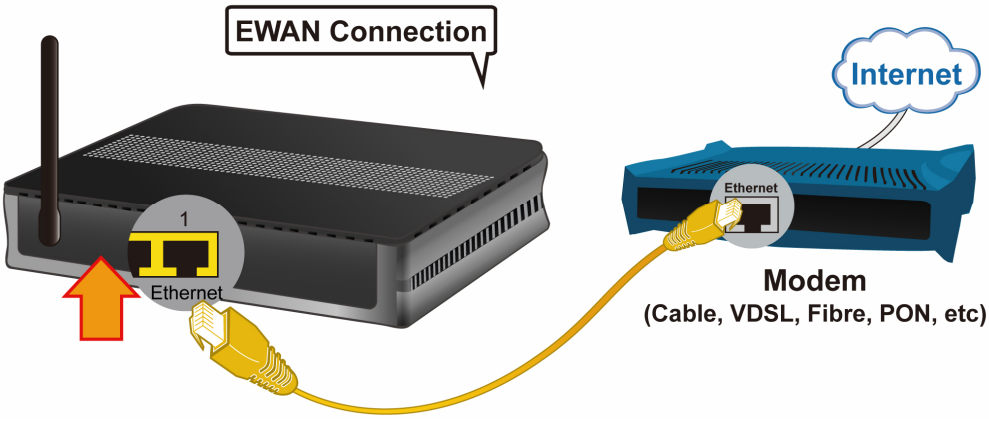
4. ADSL Connection

Connect the supplied RJ-11 phone cable to the router's ADSL port, and the other side to the phone jack on the wall.



5. EWAN Connection

Connect RJ-45 Ethernet cable to the Ethernet port # 1 (EWAN), and connect the other side to another alternative broadband device, such as Cable Modem, VDSL, Fibre Modem or PON optic lines. Please refer to User Manual for detail instruction.

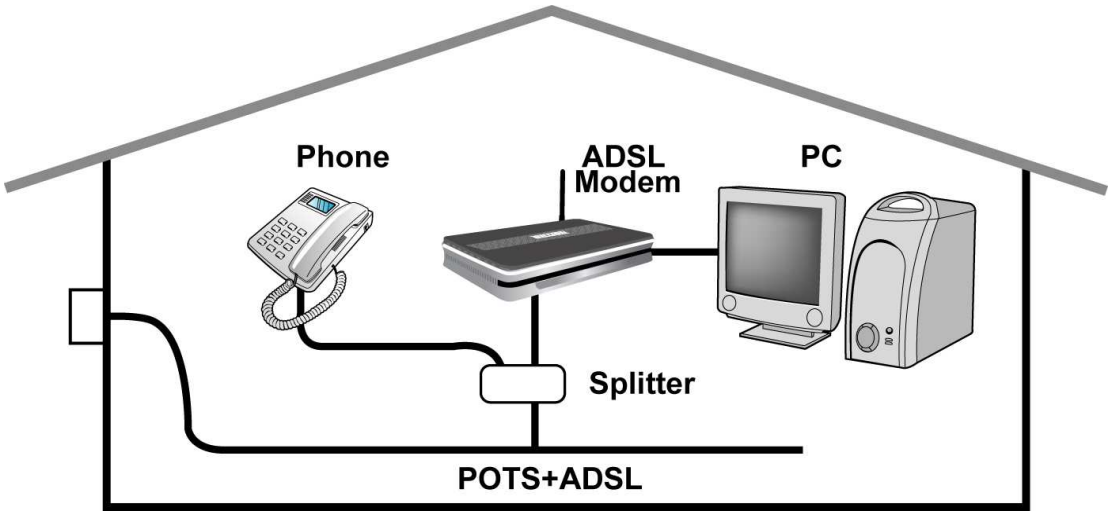


6. Splitter/ Micro-filter Connection

The Splitter / Micro-filter are important for ADSL installation, they help direct high-frequency signals to the ADSL modem & low frequency signals to the telephone or other analogue device to prevent inter-modulation distortion & get good speed/stable ADSL sync rate.

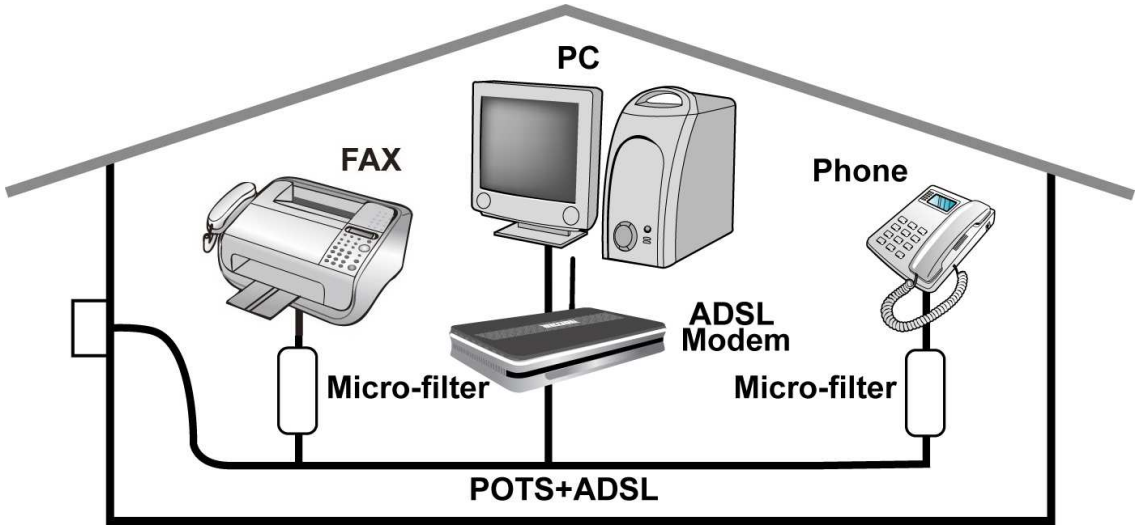
a) Splitter connection

If the installation has only a single telephone and a single ADSL modem, then a splitter can be employed.



b) Micro-filter connection

If the installation has several telephones or other analog devices, then an internal micro-filter can be employed at each analog device.



Setup Utility

After you complete the hardware installation insert CD into the CD Drive to run the setup utility. The setup utility will auto-run. Follow the step-by-step configuration wizard & it will guide you to setting up the basic network configuration.

Connecting to the Router

1. Open the web browser and type **http://192.168.1.254** in the browser's address box. This number is the default IP address for this router. Press **Enter.**
2. A username and password window will appear. **The default username is "admin", and password is "admin"**. Press **OK** to proceed.
3. You will get a status report web page and main menu screen.

Please see the relevant sections of user manual for detailed instructions on how to configure your router.

Troubleshooting

1. **None of the LEDs are on when you turn on the router.**
   Check the connection between the adapter and the router. If the error persists, you may have a hardware problem. In this case you should contact technical support.
2. **Can't ping any PCs on the LAN.**
   Check the Ethernet LEDs on the front panel. The LED should be on for a port that has a PC connected. If it is off, check the cables between your router and the PC. Make sure you have uninstalled any software firewall for troubleshooting. Verify that the IP address and the subnet mask are consistent between the router and the workstations.
3. **Frequent loss of ADSL linesync (disconnections).**
   Ensure that all other devices connected to the same telephone line as your router (e.g. telephones, fax machines, analogue modems) have a line filter connected between them and the wall socket (unless you are using a Central Splitter or Central Filter installed by a qualified and licensed electrician), and ensure that all line filters are correctly installed and the right way around. Missing line filters or line filters installed the wrong way around can cause problems with your ADSL connection, including causing frequent disconnections. If you have a back-to-base alarm system you should contact your security provider for a technician to make any necessary changes.

Product Support and Contact Information

Most problems can be solved by referring to the **Troubleshooting** section in the User Manual. If you cannot resolve the problem with the **Troubleshooting** chapter, please contact the dealer where you purchased this product.

Contact Billion

WORLDWIDE
http://www.billion.com

Billion Product Registration

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